OCD-HOBBS

SUBMIT IN TRIPLICATE * (Other Instructions on reverse side)

FORM APPROVED OMB NO. 1004-0136

X-06-7,

Expires: February 28, 1995

5. LEASE DESIGNATION AND SERIAL NO.

J E E 10 E	DEGICA		•
NTA.	ATA A	00161	

UNITED STATES
DEPARTMENT OF THE INTERIOR
DUDEAU OF LAND MANACEMENT

130	BUREAU OF LAND MA	NAGEMEN [*]	т /				NMNM-90161	,
APPLIC	CATION FOR PERMI	T TO DRI	LL OR	DEE	PEN		6IF INDIAN, ALLOTTEE OR T	RIBE NAME
la TYPE OF WORK DRI		EPEN]				7. UNIT AGREEMENT NAME	
b. TYPE OF WELL OIL X GAS WELL X WELL 2. NAME OF OPERATOR	OTHER		SINGLE ZONE		MULTIPLE ZONE	X	8. FARM OR LEASE NAME, WE Hawk B-1 #63 9. API WELL NO.	LL NO 2442
Apa	che Corporation (CO14	163 Bond)	(0003-5)		•		30- 025- 39	3148
3. ADDRESS AND TELEPHO	NE NO. Agent: 705 W Mescalero R #1500, Tulsa, OK 74136 918-49	d., Roswell, NM	(88201 505	-624-979	9 (Bonnie Jos	nes)	10. FIELD AND POOL OR WILD Eunice; Blinebry-Tubb-Drink	
4. LOCATION OF WELL (Re	port location clearly and in accords L, 1461' FEL, Unit O (SW)	ance with any St 4SE ¹ /4)	ate requirem	ents.*)			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	
711 proposou prod. Zone	[†] 190' FSL, 1461' FEL, Unit	O (SW¼SE)	1/4)				Sec. 9, T21S-R37E, N	IMPM
	D DIRECTION FROM NEAREST TOWN	OR POST OFFICE	E*				12. COUNTY FOR PARISH	13.STATE NM
±2.5 miles North	of Eunice, NM						Lea	14141
15. DISTANCE FROM PROPE LOCATION TO NEARES' PROPERTY OR LEASE L	r 190' INE, FT.		16. NO. OF 958		N LEASE		0. OF ACRES ASSIGNED THIS WELL 40.00	
(Also to nearest drig. u			19. PROPO	SED DEPI	TH .	20. RO	TARY OR CABLE TOOLS	
TO NEAREST WELL, DR OR APPLIED FOR, ON T	100		6,87	5'		F	Rotary	
21. ELEVATIONS (Show w			1			22.	. APPROX. DATE WORK WILL STA	RT *
3,474' (KB)						L	ASAP	
23.	PROPOS	SED CASING A	ND CEMEN	ITING PI	ROGRAM	(Capitan Controlled W	ater Basin
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PE	R FOOT	SE	TTING DEPTH		QUANTITY OF CEM	ENT
		See Ex	hihit	Δ				
		DCC LA	inoit.			\dashv		
	tion of Program: Drill Com ibit Afor complete Dril	pletion - 2: ling Progra	8 days	5			\$\hat{\psi}	
Exhibit A: Drillin	0 0	bit D: Surv	ey Plat	_	Ex	hibit	G: Rig Layout	
Exhibit B: H ₂ s Pl		bit E: Loca			Ex	hibit	H: BOP Layout	
Exhibit C: Surfaction Above SPACE DESCRIBE P	CE USE PIAN EXNI PROPOSED PROGRAM: If proposal is	bit F: Exist s to deepen, give	_		uctive zone a	nd prope	osed new productive zone. If p	roposal is to drill
or deepen directionally, give	e pertinent data on subsurface locat	ions and measure	ed and true v	ertical de	epths. Give b	lowout p	preventer program, if any.	
SIGNED Son	L. Jones, RPL (Bonnie)	тпт.е <u>Ре</u>	rmit Age	nt for	Apac	he Co	orporation DATE 8	3-25-06
(This space for Federal or			······································					
PERMIT NO.		·	 	PROVAL	DATE			
CONDITIONS OF APPROVA	not warrant or certify that the appl the Don Peterson	TITLE			hose rights in			2006 2006
APPROVED BY		TITLE TO L		M AVV	<u> </u>	D/	\TE	

*See Instructions On Reverse Side APPROVAL FOR 1 YEAR

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

> **APPROVAL SUBJECT TO** GENERAL REQUIREMENTS AND TACHED

DRILLING PROGRAM

I. The geological surface formation is recent Permian with quaternary alluvium and other surficial deposits.

II. Estimated Tops of Geological Markers:

FORMATION	<u>DEPTH</u>
Quaternary alluvials	Surface
Rustler	1286'
Yates	2640'
Queen	3426'
Grayburg	3734'
San Andres	3978'
Glorieta	5182'
Blinebry	5665'
Tubb	6134'
Drinkard	6451'
Abo	6715'
TD	6875°

III. Estimated depths at which water, oil, gas, or other mineral-bearing formations are expected to be encountered:

SUBSTANCE	<u>DEPTH</u>
Oil	Blinebry@5665'
	Tubb@6134'
	Drinkard@6451'
Gas	None anticipated

Fresh Water None anticipated

All fresh water and prospectively valuable minerals (as described by BLM) encountered during drilling will be recorded by depth and adequately protected. All oil and gas shows within zones of correlative rights will be tested to determine commercial potential.

IV. A. Proposed Casing Program:

	CASING		WEIGHT			ESTIMATED TOC -
HOLE	SIZE		<u>PER</u>		SACKS	REMARKS
SIZE	OD / ID	<u>GRADE</u>	<u>FOOT</u>	<u>DEPTH</u>	<u>CEMENT</u>	
12 1/4"	8 5/8"	J55 STC	24#	1300'	600	TOC - Surface
	8.097"					8.9 ppg Water-based
		WITH	iess Surfa	ce Casing		Mud; 89 ° F Est. Static Temp; 83 ° F Est. Circ. Temp.
7 7/8"	5 ½" 4.892"	J55 LTC	17#	6,875'	1,400	TOC - Surface Float Collar set @ 6830'/ 10.10 ppg Brine Mud; 141 ° F Est. Static Temp; 117 ° F Est. Circ. Temp.

B. Proposed Cement Program:

0.467.76	LEAI	SLURRY		TA	IL SLURRY		DISPLACEMENT
CASING			-				
8 5/8"	400 sacks 35:65				ass C Cement		80 bbls Fresh Water @
	Cement + 2% b				n Chloride + 0		8.33 ppg
	Chloride + 0.25				o Flake + 56.3°	% Fresh	
	+ 0.003 gps FP	-6L + 6% bwo	: Wa	nter			
	Bentonite gel				Vol. Cu Ft		
	752 Vol. Cu Ft				Vol. Factor		
		Vol. Factor		-	t (ppg) 14.8		
	Slurry Weight (~ ~ ~		•	(cf/sack) 1.35		
	Slurry Yield (cf				lix Water (gps)		
	Amount of Mix				mping Time –	70 BC	
		ted Pumping Ti	•	H:MM)-3:	00;		
	70 BC	<u>(HH:MM)-4:00</u>	<u>;</u>	· · · · · · · · · · · · · · · · · · ·			
		_		ig: Volume	Calculations:		
	60 ft x	0.4127 cf/f	t with	100% ex			1040.0 cf
40 1	ft	x 0.8214 cf		0% exce	ess =		32.8 cf
40 1	ft x	0.3576 cf/f		0% exc	ess =		14.3 cf (inside pipe)
		TOTAL SI	URRY VC	LUME	=		1087.1 cf
					=		193.6 bbls
Spacer		ater @ 8.33 pp	3				
CASING		SLURRY			SLURRY		DISPLACEMENT
5 ½"	950 sacks (50:5				50) Poz (Fly		160 bbls 2% Kcl Water
	Class C Cemen		•		Cement + 5% b		@ 8.43 ppg
	Sodium Chlorid			um Chlorie	de +0.003 gps	FP-	
	Cello Flake + 0		L + 6L				
	10% bwoc Ben				Vol. Cu Ft		
		Vol. Cu Ft			Vol. Factor		
		ol. Factor		-	(ppg) 14.2		
	Slurry Weight			•	f/sack) 1.29		
	Slurry Yield (c	-			Water (gps) 5	-	
	Amount of Mix	Water (gps)			Fluid(gps) 5.9		
	14.07;	F1:1/ \14			ping Time – 70	BC	
	Amount of Mix		,	HH:MM)	3:00;		
		<u>ping Time – 70</u>	BC				
· · · · · · · · · · · · · · · · · · ·	(HH:MM)-				····		
					Calculations:		
	300 ft		926 cf/ft	with	0% excess	=	250.4 cf
	575 ft		733 cf/ft	with	159% excess	==	1650 cf
19	900 ft		733 cf/ft		85% excess	=	609.0 cf
	40 ft		305 cf/ft	with	0% excess	=	5.2 cf(inside pipe)
		TOTAL SI	LURRY VC	DLUME	=		2514.6 cf
					=		447.8 bbls

All slurries will be tested prior to loading to confirm thickening times and a lab report furnished to Apache. Fluid loss will be tested and reported on slurries with fluid loss additives. Lab test report will be furnished prior to pumping cement.

V. ' A. Proposed Mud Program

<u>DEPTH</u> 0 – 1,300'	MUD PROPERTIES Weight: 8.6 – 9.6 ppg Viscosity: 34 – 36 sec/qt pH: NC Filtrate: NC	REMARKS Spud with a Conventional New Gel/Lime "Spud mud". Use NewGel and native solids to maintain a sufficient viscosity to keep the hole clean. Mix Paper one-two sacks every 100 feet drilled to minimize wall cake build up on water sands and to control seepage loss. At TD of interval, mix in pre-mix pit, 100 barrels of system fluid, NewGel viscosity of 60 sec/100cc, add 0.25 ppb of Super Sweep.
1300° – 5600°	Weight: 9.9 – 10.1 ppg Viscosity: 28 – 29 sec/qt pH: 9-10 Filtrate: NC	Drill out from under the surface casing with Brine Water. Paper should be added at 2 bags after every 100' drilled to control seepage losses. Use Lime to maintain pH at 9-10. Mix one gallon of New-55 at flowline every 250 feet drilled to promote solids settling. Sweep hole with 5-ppb of Super Sweep every 500 feet.
5600' – TD	Weight: 9.9 – 10.1 ppg Viscosity: 30 – 40 sec/qt pH: 9-10 Filtrate: 8-15 cm/30 min	From 5600' to Total Depth, it is recommended the system be restricted to the working pits. Adjust and maintain pH with Caustic Soda. Treat system with Newcide to prevent bacterial degradation of organic materials. Mix Starch (yellow) to control API filtrate at <15cc.

VI. Proposed Control Equipment:

Will install on the 8 5/8" surface casing a 9" x 3000 psi WP Double Ram BOP and will test before drilling out of surface casing. As expected pressures will not exceed 2000 psi, we request a waiver of the remote control requirement on the accumulator of the 3M BOP and a variance to run a 2M BOP, if available, See Exhibit "H" for BOP layout.

VII. Auxiliary Equipment:

9" x 3000 psi double BOP/blind & pipe ram (2M BOP if available)

41/2" x 3000 psi Kelly valve

9" x 3000 psi mud cross – H_2S detector on production hole Gate-type safety valve 3" choke line from BOP to manifold

2" adjustable chokes - 3" blowdown line

VIII A. Testing Program: None planned

B. Logging Program: The following logs may be run:

CNL, LDT, GR, CAL, DLL, MSFL, NGT, Sonic from TD-1300'

CNL, GR from TD-Surface

C. Coring Program: None planned

D. Mudlogging Program: None planned

IX. No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered, however, the proposed mud program will be modified to increase the mud-weight. The estimated maximum bottom hole pressure is 2400 psi.

EXHIBIT "B" Hawk B-1 #63

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

No H_2S is anticipated.

EXHIBIT "C"

SURFACE USE AND OPERATIONS PLAN CULTURAL RESOURCES SURVEY APPROXIMATE REHABILITATION SCHEDULE

LOCALITY: HAWK B-1 #63
OPERATOR: APACHE CORPORATION

LOCATION: SW'/SE'/4 OF SECTION 9, T21S-R37E, N.M.P.M. LEA COUNTY, NEW MEXICO

SUBMITTED TO:

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT CARLSBAD FIELD OFFICE 620 E. GREENE ST CARLSBAD, NM 88220 TELEPHONE (505) 234-5972

This plan is submitted to provide permitting agencies with information necessary to allow an appraisal of the environmental effects associated with the proposed drilling operations. Within the context of typical drilling operations, this plan provides for protection of surface resources and other environmental components. This plan has been developed in conformity with the United States Geological Survey NTL-6 guidelines, Bureau of Land Management Oil and Gas Order No. 1, and in connection and consultation with the private surface owner of record, if other than the United States of America, as well as the Roswell District Office for the Bureau of Land Management and the United States Department of the Interior personnel.

PART #1:

1) Surface Location:

SW4SE4 of Section 9, Township 21 South, Range 37 East, N.M.P.M.

Lea County, New Mexico

190' FSL, 1461' FEL, Unit O

See attached Exhibits "D" and "E"

2) Bottom Hole Location:

SW'4SE'4 of Section 9, Township 21 South, Range 37 East, N.M.P.M.

Lea County, New Mexico

190' FSL, 1461' FEL, Unit O

See attached Exhibits "D" and "E"

3) Leases Issued:

NM-90161

4) Record Lessee:

Apache Corporation 50% BP America 25% Chevron USA 25%

5) Acres in Lease:

Township 21 South, Range 37 East, NMPM

Section 4: Lots 3, 6

Section 6: E½SE¼, SW¼SE¼

Section 8: E½SW¼, SE¼

Section 9: E½NW¼, S½

Township 20 South, Range 37 East, NMPM

Section 13: SW'4NE'4, NW'4SW'4

Township 20 South, Range 38 East, NMPM

Section 30: Lot 1

Total Acres: 958.25

6) Acres Dedicated to Well:

There are 40.00 acres dedicated to this well, which takes in the SW¼SE¼ of Section 9, Township 21 South, Range 37 East, N.M.P.M., Lea County, New Mexico.

PART #2;

1) Existing Roads:

Exhibits "E-1" & "E-2" comprise maps showing the proposed well site in relation to existing roads. From the intersection of Highway 8 and loop road 207 in Eunice, New Mexico, go 2.7 miles north on Loop 207. Turn left (west) on Hill Road and go 0.1 of a mile and turn right (north), go 0.3 of a mile then turn left (west) to location as illustrated on Exhibit "E-2".

2) Planned Access:

- A. <u>Length and Width:</u> Existing lease/access roads will be used into the well site. Application for a buried pipeline will be made if it becomes necessary.
- B. Construction: The existing roads will be lightly graded and topped with compacted caliche as needed.
- C. Turnouts: None required.
- D. Culverts: None required.
- E. Cuts and Fills: As needed.
- F. Gates and Cattleguards: None required.

3) Location of Existing Wells:

Exhibit "F" shows existing wells within a 1-mile radius of the proposed well.

4) Location of Existing and/or Proposed Facilities:

- A. There are production facilities within the area of the Hawk B-1 lease.
- B. If the oil well proves to be commercial, any necessary production facilities will be installed on the drilling pad, and flow lines will be installed along the proposed and existing roads to the production facilities and storage tanks. See Exhibit "E-3" for flow-line route.

5) Location and Type of Water Supply:

Apache Corporation plans to drill the proposed well with fresh and brine water which will be transported by truck over proposed and existing access roads.

6) Source of Construction Materials:

Caliche for surfacing access roads and the wellsite pad will be obtained from the location itself or from BLM pits in the area.

7) Method of Handling Waste Material:

- A. Drill cuttings will be disposed of in the reserve pits.
- B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.
- C. All pits will be fenced with normal fencing materials to prevent livestock from entering the area.
- D. Water produced during operations will be collected in tanks until hauled to an approved disposal system.
- E. Oil produced during operation will be stored in tanks until sold.
- F. Apache Corporation will comply with current laws and regulations pertaining to the disposal of human waste.
- G. All waste materials will be contained to prevent scattering by the wind and will be removed from the well site within 30 days after drilling and/or completion operations are finished.
- 8) Ancillary Facilities: None planned.

9) Well Site Layout:

- A. Exhibit "G" shows the relative location and dimensions of the well pad, reserve pits, and major rig components. The pad and pit area have been staked and flagged.
- B. Mat Size: 150' x 210' plus reserve pits as shown on Exhibit "G".
- C. Cut & Fill: Only minor leveling of the drilling site is anticipated.
- D. The surface will be topped with compacted caliche and the reserve pits will be lined with 12 mil plastic.

10) Plans for Restoration of the Surface:

- A. After completion of drilling and/or completion operations, all equipment and other material, not needed for operations, will be removed. Pits will be filled and the location cleaned of all trash and junk to leave the well site in as aesthetically pleasing a condition as possible.
- B. Any unguarded pits containing fluids will be fenced until they are filled.
- C. If the proposed well is non-productive, Apache Corporation will comply with all rehabilitation and/or vegetation requirements of the Bureau of Land Management, and such rehabilitation will be accomplished as expeditiously as possible. All pits will be filled and leveled within 90 days after abandonment.

11) Other Information:

- A. Topography: The wellsite and access road are located in the Querecho Plains and are relatively flat.
- B. <u>Soil</u>: The proposed location, access road and production facilities consist of sandy soil. Slope in the proposed area ranges from zero (0) to five (5) degrees.
- C. <u>Flora and Fauna:</u> Vegetation is one of a grassland environment and a scrub-grass, scrub disclimax community. The wildlife consists of rabbits, coyotes, rattlesnakes, lizards, dove, quail and other wildlife typical of the semi-arid desert land.
- D. Ponds and Streams: There are no ponds, lakes, streams or feeder creeks in the immediate area.
- E. <u>Residences and Other Structures:</u> There are no occupied residences or other structures on or near the proposed location.
- F. Land Use: The land is used for grazing cattle.
- G. <u>Surface Ownership:</u> The surface is owned by the Millard Deck Estate, c/o Bank of America NA, attention Tim Wolters. P. O. Box 270, Midland, TX 79701, 432-685-2064. A surface damage agreement between Apache Corporation and the Millard Deck Estate was executed by both parties on August 11, 2006.
- H. Archaeological, Historical, and Other Cultural Sites:

Don Clifton, Archaeological Consultant, of Pep, New Mexico, will be conducting an archaeological survey of the proposed well which covers the drilling location, production facilities, and access road, including a corridor along said access road for power and flow lines. His report will be filed under separate cover.

I. Senior Representative (Manager, Engineering & Production):

Ross Murphy Apache Corporation Suite 1500 – Two Warren Place 6120 South Yale Avenue Tulsa, Oklahoma 74136 (918) 491-4834

Project (Operations Engineer):

Kevin Mayes Apache Corporation Suite 1500 – Two Warren Place 6120 South Yale Avenue Tulsa, Oklahoma 74136 (918) 491-4972

Drilling Operations (Operations Engineer):
Terry Gilbert
Apache Corporation
Suite 1500 – Two Warren Place
6120 South Yale Avenue
Tulsa, Oklahoma 74136 (918) 491-4801

CERTIFICATION

I hereby certify that Apache Corporation has inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in the plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Apache Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Bonita L. L. Jones, RPL, Consulting Landman

Agent for Apache Corporation

LIMPUSJONES, LLC

705 West Mescalero Road

Roswell, New Mexico 88201-5226

(505) 624-9799

FAX (505) 624-9799

E-Mail: blljones@plateautel.net

Date: 8-25-06

K-06-71 Exhibit D-1

State of New Mexico

DISTRICT I 1625 N. FRENCH DR., HOBBS, NM 88240

Energy, Minerals and Natural Resources Department

DISTRICT II 1301 W. GRAND AVENUE, ARTESIA, NM 86210 OIL CONSERVATION DIVISION

Form C-102 Revised JUNE 10, 2003 Submit to Appropriate District Office State Lease ~ 4 Copies Fee Lease ~ 3 Copies

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

30 00 K 29199	Pool Code	Eunice; Blinebry-Tu	Name hb DeinKard North
Property Code 24427	Pro	operty Name WK B-1	Well Number
OGRID No. 0873		erator Name CORPORATION	Elevation 3474

Surface Location

-	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	0	9	21 - S	37-E		190	SOUTH	1461	EAST	LEA

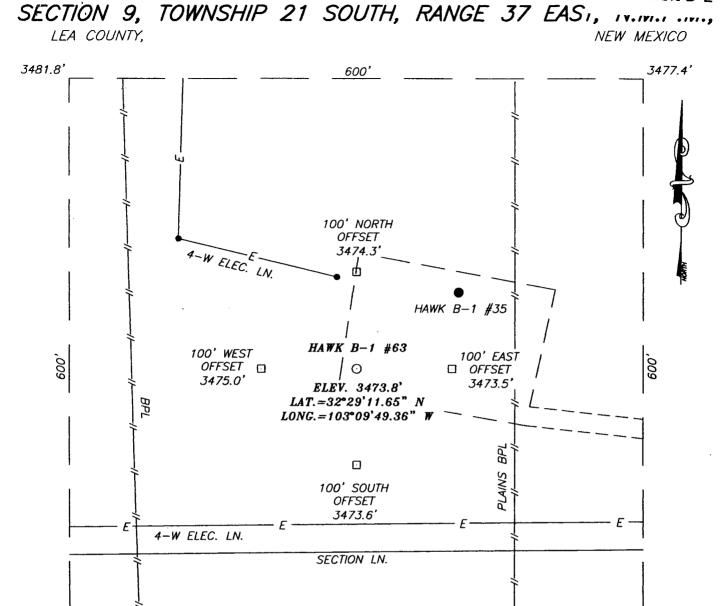
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint o	r Infill Co	nsolidation	Code Or	der No.	L-5497			1

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

GEODETIC COORDINATES NAD 27 NME Y=542704.4 N X=860659.5 E LAT.=32*29'11.65" N LONG.=103*09'49.36" W DETAIL OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. Signature LADA Williams Printed Name
SECTION 9 SECTION 16 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervison and that the same is true and correct to the best of my belief. JANUARY 19, 2006 Date Surveyor JR Signature & Seal of Professional Surveyor Professional Surveyor Amyla Lama 21/06

3471.5



600'

DIRECTIONS TO LOCATION

3480.8'

FROM THE INTERSECTION OF ST. HWY. #207 CO. RD. E-34 (HILL RD.) GO NW ON CO. RD. E-34 APPROX. 0.9 MILES. TURN RIGHT (EAST) AND GO APPROX. 0.5 MILES. TURN RIGHT (SOUTH) AND GO APPROX. 0.2 MILES. TURN RIGHT (WEST) AND GO APPROX. 0.1 MILES TO THE EXISTING HAWK B-1 #35 WELL. THIS LOCATION IS ON THE SWC OF EXIST PAD.



PROVIDING SURVEYING SERVICES
SINCE 1948
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(505) 393-3117

100	o	100	200 Feet
	Scale:1"	=100'	

APACHE CORPORATION

HAWK B-1 #63 WELL
LOCATED 190 FEET FROM THE SOUTH LINE
AND 1461 FEET FROM THE EAST LINE OF SECTION 9,
TOWNSHIP 21 SOUTH, RANGE 37 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.

Survey Date: 1	/19/06	3	Sheet	1	of	1	Sheets	
W.O. Number: 06	5.11.0073	Dr L	By: J.R.		R	ev 1:	N/A	_
Date: 1/24/06	Disk: CD#	6	0611	0073		Scale	e:1 =100	,

State of New Mexico

DISTRICT I 1625 N. FRENCH DR., HOBBS, NM 68240

Energy, Minerals and Natural Resources Department

Form C-102

DISTRICT II

Dedicated Acres

Joint or Infill

Consolidation Code

1301 W. GRAND AVENUE, ARTESIA, NM 88210

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

Revised JUNE 10, 2003 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

API	Number		1	Pool Code		Pool Name					
Property	Code				• •	Property Name Well Numb HAWK B-1 63					
OGRID N	0.			APA		Operator Name Elevation E CORPORATION 3474'					
					Surface Loca	ation					
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County		
0	9	21-S	37-E		190	SOUTH	1461	EAST	LEA		
	<u> </u>		Bottom	Hole Loc	cation If Diffe	rent From Sur	face				
UL or lot No.	Section	Township	Range Lot Idn Feet from the North/South line Feet from the					East/West line	County		

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

Order No.

OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. Signature Lana Williams Printed Name Eng. Tech Title 7/20/06 Date SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervison and that the same is true and correct to the best of my belief. JANUARY 19, 2006 Date Surveyed Signature & Seal of Professional Surveyor
O6.11.0073 Certificate No. GARY EIDSON 12841

VICINITY MAP

	20 2	1	55	53	24 £6 24 82	원 8 19 보	50	21	SS	23	24 80		50
	29 21 DDOX	1	27 SILL	26	25	30	29	28	27	26	25	30	R 39 E
}	1	ST. 8	34	25 HIL	36 . (31	32	33	34	35	36	31	32
GULF A	ST. 175	CURRY	2	İ		E	IAWK B-1	#63]3		87.1	6	5	4
ΟΠ	CE KILY	NTE	R "	12	7	8	3	7	10 11	12	7	8	9
GULF	E31 16 ST. 176	S EUNIC	14 E MUNICIPAL EATION AREA	13	18 P.	17 E36	TURNER F73	15	JONES CI	13	.169 RO	PRIVATE P	20
20	21	27. 8	23 7 7 7 1	24 H	R 37 E 19	20	EEU EEU		E38 23	24	8 명 8 8 19 8 명 8 19	20	SI 88
9	28	EUNICE A	26	E HILL	ST. 8	29	Z 28]	£33 27	NEITAL % 26	ST. 18	RIVATE RD.	29	28
32	33	34	35	36 36	31	32 1E)	ES3 ES3 XAS AVE.	2/1	34 ST. 2		31 2	32 7. 234	33
5	4	3	5	1	6	5	LEGION e33	3	2	ARD 1	6	5	4
8	9	10	II DELAW	12 ARE BASI	7	8	S. LE	10	15/18	DRINKARD	7	8	9
	16	15	14	13	18	1	7 16	15	14		R 38 18	17	16 pz
20	21	22	23		R 37 E 15	20	a	1 a	23	24	19	20	S1 85 85

SCALE: 1" = 2 MILES

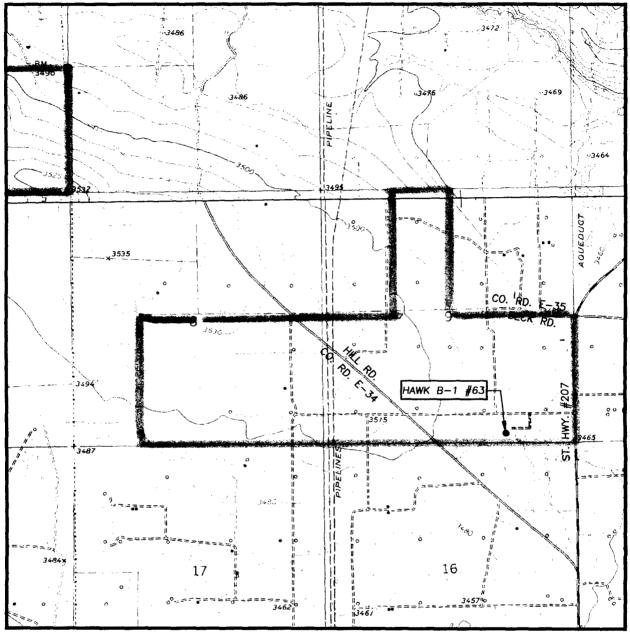
SEC. 9 1	WP. <u>21-S</u> RGE. <u>37-E</u>
SURVEY	N.M.P.M.
COUNTYL	EA STATE NEW MEXICO
DESCRIPTION	190' FSL & 1461' FEL
ELEVATION	3474'
OPERATOR	APACHE CORPORATION
I FASF	HAWK R-1



PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(505) 393-3117



LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

SEC. 9 TWP. 21-S RGE. 37-E

SURVEY N.M.P.M.

COUNTY LEA STATE NEW MEXICO

DESCRIPTION 190' FSL & 1461' FEL

ELEVATION 3474'

APACHE CORPORATION

LEASE HAWK B-1

U.S.G.S. TOPOGRAPHIC MAP HOBBS SW, N.M.

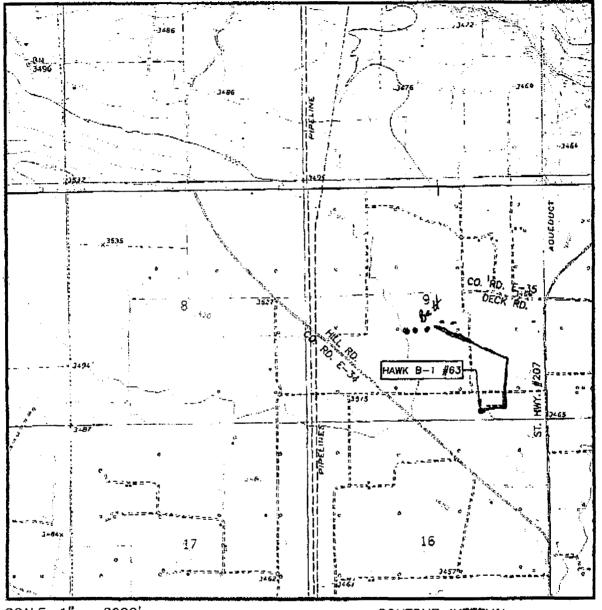
CONTOUR INTERVAL: HOBBS SW, N.M. - 5' EUNICE, N.M. - 10'



PROVIDING SURVEYING SERVICES SINCE 1946 JOHN WEST SURVEYING COMPANY 412 N. DAL PASO HOBBS, N.M. 88240 (505) 383-3117

LEASE BOUNDARY

LOCATION VERIFICATION MAP



SCALE: 1'' = 2000'

SEC. 9 TWP. 21-5 RGE. 37-E

N.M.P.M. SURVEY

COUNTY LEA STATE NEW MEXICO

DESCRIPTION 190' FSL & 1461' FEL

3474 ELEVATION _

APACHE CORPORATION OPERATOR _

LEASE____ HAWK B-1

U.S.G.S. TOPOGRAPHIC MAP

HOBBS SW, N.M.

CONTOUR INTERVAL: HO8BS SW, N.M. - 5' EUNICE, N.M. - 10'



PROVIDING SURVEYING SERVICES SINCE 1946 JOHN WEST SURVEYING COMPANY 412 N. CAL PASO HOBBS, N.M. 88240 (505) 393-3117

Flow Lines

Exhibit F Hawk B-1 #63 Township 21 South, Range 37 East, NMPM Section 9: SWSE 190' FSL, 1,461' FEL (Unit O)

Lea County, New Mexico

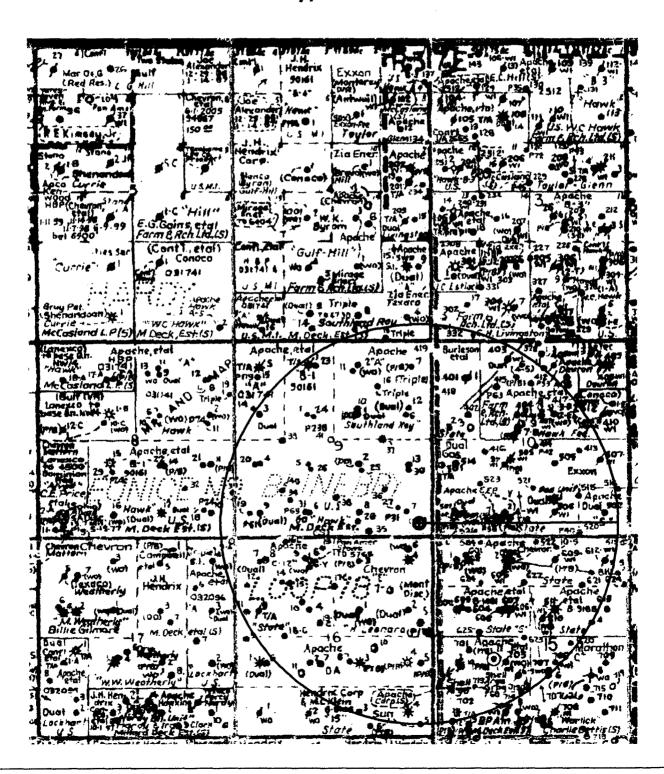
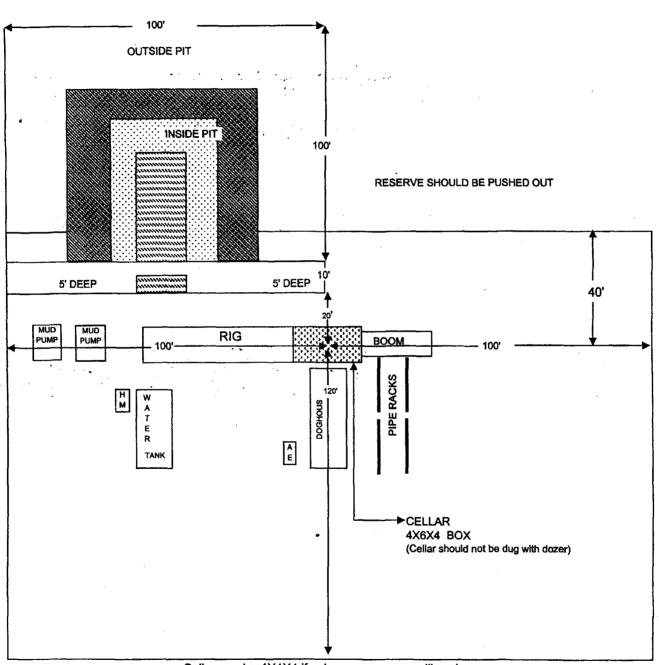


Exhibit G CapStar Drilling, Inc. LOCATION SPECIFICATIONS AND RIG LAYOUT FOR EARTH PITS

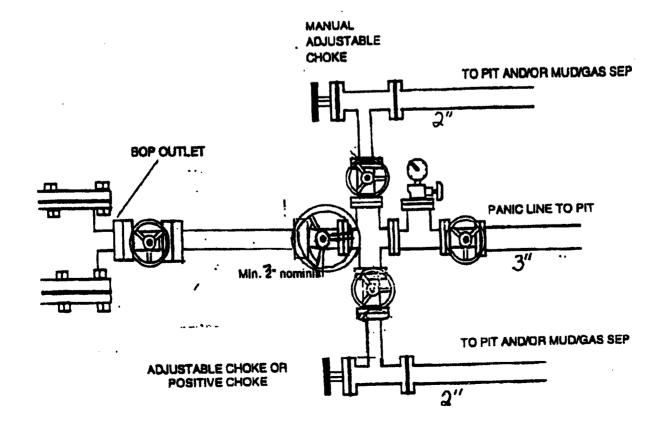
Rig #8



Cellar can be 4X4X4 if using a screw-on wellhead Working Pits dug 5' below ground level

*Note: if BOP is equipped w/ side outlets below the rams, a spool is not required. 3000 pai WP Double Ram Blow-out Preventor. Must be tested to 1000 pai prior to drilling out 8-5/8" surface casing. **Prom Rig Pump** **Drilling** **Drill

Choke Manifold Schematic



CONDITIONS OF APPROVAL - DRILLING

Well Name & No.

Hawk B-1 #63

Operator's Name:

Apache Corporation

Location:

190 FSL, 1461 FEL, Section 9, T-21-S, R-37-E

Lease:

NMNM-90161

I. DRILLING OPERATIONS REQUIREMENTS:

1. The Bureau of Land Management (BLM) is to be notified at the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (505) 234-5972 or (505) 361-2822 (After hours) - for wells in Eddy County; and the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (505) 393-3612 for wells in Lea County, in sufficient time for a representative to witness:

- A. Spudding
- B. Cementing casing: 8-5/8 inch 5-1/2 inch.
- C. BOP tests
- 2. A Hydrogen Sulfide (H2S) Drilling Plan should be activated prior to drilling into the <u>Glorieta</u> Formation. A copy of the plan shall be posted at the drilling site. Hydrogen Sulfide has been reported in wells in section 3 and 10 in amounts from 200-800 ppm in gas streams and 400-130,000 in STVs.
- 3 Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
- 4. Submit a Sundry Notice (Form 3160-5, one original and five copies) for each casing string, describing the casing and cementing operations. Include pertinent information such as; spud date, hole size, casing (size, weight, grade and thread type), cement (type, quantity and top), water zones and problems or hazards encountered. The Sundry shall be submitted within 15 days of completion of each casing string. The reports may be combined into the same Sundry if they fall within the same 15 day time frame.
- 5. The API No. assigned to the well by NMOCD shall be included on the subsequent report of setting the first casing string.
- 6. A Communitization Agreement covering the acreage dedicated to this well must be filed for approval with the BLM. The effective date of the agreement shall be prior to any sales.
- 7. Gamma-Ray/Neutron logs shall be run from the base of the Salado Formation to the surface; cable speed not to exceed 30 feet per minute.

II. CASING:

1. The <u>8-5/8</u> inch surface casing shall be set below usable water (25' into the Rustler) and cement circulated to the surface. If cement does not circulate to the surface the appropriate BLM office shall be notified and a temperature survey or cement bond log shall be run to verify the top of the cement. Remedial cementing shall be completed prior to drilling out that string.

Possible lost circulation in the Glorieta.

2. The minimum required fill of cement behind the <u>5-1/2</u> inch production casing is <u>cement shall circulate</u> <u>to surface.</u>

III. PRESSURE CONTROL:

- 1. All BOP systems and related equipment shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2. The BOP and related equipment shall be installed and operational before drilling below the <u>8-5/8</u> inch casing shoe and shall be tested as described in Onshore Order No. 2. Any equipment failing to test satisfactorily shall be repaired or replaced.
- 2. Minimum working pressure of the blowout preventer and related equipment (BOPE) is 2000 psi.
- 3. The appropriate BLM office shall be notified in sufficient time for a representative to witness the tests.
- The tests shall be done by an independent service company.
- The results of the test shall be reported to the appropriate BLM office.
- Testing fluid must be water or an appropriate clear liquid suitable for sub-freezing temperatures. Use of drilling mud for testing is not permitted since it can mask small leaks.
- Testing must be done in a safe workman-like manner. Hard line connections shall be required.

Engineer (after hours): 505-706-2779

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II

1000 Rio Brazos Road, Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources**

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe

Form C-144 June 1, 2004

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

office

Is pit or below-grade tar	ale I all Registration of Clost is covered by a "general plan"? Yes No No or below-grade tank Closure of a pit or below-gr	• <u> </u>
Anache Corporation (0873)		rry.gilbert@usa.apachecorp.com
Operator: 6120 S. Yale Ave., #1500, Tulsa, OK 74136	ic;c-indii auuros	
7001635.	30-025 - 38 98 U/L or Qtr/Qtr O	See 9 T 21S R 37E
County: Lea Latitude	Longitude	NAD: 1927 □ 1983 □
Surface Owner: Federal State Private Indian	/ 1.2°	-A
Pit	Below-grade tank	- 20
Type: Drilling A Production Disposal D	Volume: bbl Type of fluid:	I KO
Workover	Construction material:	
Lined 🖾 Unlined 🗆	Double-walled, with leak detection? Yes, If n	on. explain why not.
Liner type: Synthetic X Thickness 20 mil Clay	No.	
Pit Volume 7105 bbl		
	Less than 50 feet	(20 points)
Depth to ground water (vertical distance from bottom of pit to seasonal	50 feet or more, but less than 100 feet	(10 points) /O
nigh water elevation of ground water.)	100 feet or more	(0 points)
Wellhead protection area: (Less than 200 feet from a private domestic	Yes	(20 points)
water source, or less than 1000 feet from all other water sources.)	No	(0 points)
Distance to surface water: (horizontal distance to all wetlands, playas,	Less than 200 feet	(20 points)
arrigation canals, ditches, and perennial and ephemeral watercourses.)	200 feet or more, but less than 1000 feet	(10 points)
априня саназ, ансиса, ана регения ана организа чиноводител,	1000 feet or more	(0 points)
	Ranking Score (Total Points)	10
this is a pit closure: (1) Attach a diagram of the facility showing the pit'	's relationship to other equipment and tanks. (2) Indi	icate disposal location: (check the onsite box if
nur are burying in place) onsite offsite If offsite, name of facility_	(3) Attach a general	description of remedial action taken including
mediation start date and end date. (4) Groundwater encountered: No []		
) Attach soil sample results and a diagram of sample locations and excava	· · · · · · · · · · · · · · · · · · ·	
Additional Comments:		_
I hereby certify that the information above is true and complete to the best has been/will be constructed or closed according to NMOCD guideline		
-	- 1	
Printed Name/Title Triry Cilled		
	Signature	<i>2.</i>
Your certification and NMOCD approval of this application/closure does an exhermise endanger public health or the environment. Nor does it relieve regulations.	not relieve the operator of liability should the content the operator of its responsibility for compliance with	is of the pit or tank contaminate ground water or any other federal, state, or local laws and/or
Approval:	no month	, , , , , , , , , , , , , , , , , , , ,
Approval: Printed Name/Title CHRIS WILLIAMS DIST. SUP	Signature Mus Il Mills	Care: 12/0/06